

Abstract of the Disclosure

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An assay is performed such that a compendium of raw assay data is developed and is then positionally corrected. The assay comprises a plurality of longitudinally oriented plates p , each having a wells organized into rows i and columns j . Each well (i, j, p) has a raw value x_{ijp} associated therewith that is

10 deconstructed into: a plate effect value representing extraneous effects attributable to the plate p of the well (i, j, p) ; a row effect value representing extraneous effects attributable to the row i on the plate p of the well (i, j, p) ; a column effect value representing extraneous effects attributable to the column j on the plate p of the well (i, j, p) ; a non-additive, interaction effect representing

15 extraneous positional effects attributable to consistent positional effects beyond the plate, row, and column effects previously determined for the (i, j, p) well on plate p ; and a residual data value that is left over once all the above extraneous effects are taken into account. Thereafter, the residual data value associated with each well (i, j, p) is employed to represent the well (i, j, p) as compared with all

20 other wells (i, j, p) on the plate p .